

POLYFLAM® RPP 2120

Polypropylene Homopolymer

A. Schulman Europe

Message:

20% mineral filled flame retardant PP-homopolymer, halogen free according to DIN VDE 0472 part 815

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Features	Homopolymer		
	Halogen-free		
	Flame retardancy		
Agency Ratings	DIN VDE 0472 part 815		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PP FR(40)		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	15.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	32.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	10	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	2.0	kJ/m ²	ISO 179/1eA
23°C	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	16	kJ/m ²	ISO 179/1eU
23°C	80	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	94.0	°C	ISO 75-2/Bf
1.8 MPa, not annealed	51.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	152	°C	ISO 306/A50
--	94.0	°C	ISO 306/B50
Ball Pressure Test (140°C)	Pass		IEC 60695-10-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Burning Rate	< 100	mm/min	ISO 3795
Flammability Classification			IEC 60695-11-10, -20
0.800 mm	V-2		IEC 60695-11-10, -20
1.60 mm	V-2		IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
0.750 mm	960	°C	IEC 60695-2-12
1.50 mm	960	°C	IEC 60695-2-12
3.00 mm	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
0.750 mm	700	°C	IEC 60695-2-13
1.50 mm	700	°C	IEC 60695-2-13
3.00 mm	700	°C	IEC 60695-2-13
Oxygen Index	26	%	ISO 4589-2

Additional Information

1.)
Not for use in food contact applications2.)
Not for use in medical or pharmaceutical applications

Injection	Nominal Value	Unit
Drying Temperature	70.0 - 80.0	°C
Drying Time	2.0 - 4.0	hr
Rear Temperature	180	°C
Middle Temperature	200	°C
Front Temperature	210	°C
Nozzle Temperature	220	°C
Processing (Melt) Temp	180 - 220	°C
Mold Temperature	40.0 - 80.0	°C
Injection Pressure	80.0 - 120	MPa
Injection Rate	Slow-Moderate	
Holding Pressure	40.0 - 90.0	MPa
Back Pressure	5.00 - 10.0	MPa
Cushion	< 5.00	mm
Screw Speed		mm/sec

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